

## ABSTRACT

An implantable medical apparatus for detecting diastolic heart failure, DHF, comprises a DHF determining device for determining at least one DHF parameter for detecting a DHF state of the heart of a patient. The DHF determining device comprises a means for determining, as said DHF parameter, the time length (DT,IVRT) of a predetermined phase of diastole. A pacemaker comprises such an apparatus and control means for optimising pacing therapy and pacemaker settings depending on the determined time length. A corresponding method of detecting diastolic heart failure, DHF, comprises the step of determining at least one DHF parameter for detecting a DHF state of the heart of a patient. This step comprises determining, as said DHF parameter, the time length (DT,IVRT) of a predetermined phase of diastole.

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